### 13LNM250-S250-7+90CR-660-38-M25-M60-P-6

Macro Line Generator with a fan angle



#### FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and extended depth of focus.

- Line length: 14 mm
- Line width: 34 µm
- Wavelength: 660 nm
- Working distance: 236.5 mm
- Depth of focus: 3.75 mm
- Macro Line Generator for extended depth of focus



# DESCRIPTION

The laser diode beam source type 13LNM250-S250-7+90CR-660-38-M25-M60-P-6 has a fan angle of 0°, approx. uniform intensity distribution along the laser line and extended depth of focus.

More precisely, it is Gaussian clipped by an aperture with an edge intensity of 64 %. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type P</u> with micro-controller for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> or manually using the potentiometer.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.



# **TECHNICAL DATA**

13LNM250-S250-7+90CR-660-38-M25-M60-P-6

Series		13LNM250
Order Code	13LNM250-S250-7+90CR-660-38-M25-M60-P-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	660 +4/-6 nm	
Laser output power	38 mW	
Laser safety class	3В	
Focussing range	236.5-236.5 mm	
Working distance	236.5 mm	
Line length	length 14 mm	
Line width	0.034 mm	
Depth of focus	3.75 mm	
Edge intensity 64 %		
Diameter laser module	25/28 mm	
Module length	118.4 mm	
Installation length	354.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 μs

# ACCESSORIES

9D-12

Screwdriver WS 1.2

PS051003E

Power Supply 5 V



# **RELATED PRODUCTS**

LASER MODULES SERIES 13LN	<ul> <li>Micro Line, small fan angle</li> <li>Uniform intensity distribution</li> <li>Thin lines</li> </ul>
LASER MODULES SERIES LNC-13LNM	<ul> <li>Macro Line Generator, small fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LRM	<ul> <li>Macro Line Generator, fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LMM+25CM	<ul> <li>Compact Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LPM+25CM	<ul> <li>Compact Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LMM	<ul> <li>Macro Line, small fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LPM	<ul> <li>Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>



# **DATA SHEET**

This is a printout of the page <u>https://sukhamburg.com/products/details/13LNM250-S250-7\_90CR-660-38-M25-M60-P-6</u> from 4/26/2024

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